Brushbond TGP

(Formerly known as Tegraproof C)

FOSROC constructive solutions

Crystalline capillary waterproofing system for cementitious substrates

Uses

Brushbond TGP* crystalline waterproofing system is used for waterproofing against the positive or negative sides of hydrostatic heads of water, for dampproofing, repairing cracks, plugging holes, sealing wall - floor joints and stopping active leaks in a wide variety of condtions including :

- Sewage treatment and water treatment plants, tanks, foundations, tunnels and manholes.
- Terrace garden, balconies, sunshades etc.
- Roof and Sunken slabs
- Industrial and office buildings
- Reservoirs, water holding structures etc.

Advantages

- Meets the requirements as per ANSI/NSF Std 61 for suitability to potable water
- Penetrates concrete, seals capillary tracts
- Contains no chloride
- Easy to apply
- Resists chemical attack of sewage and industrial wastes
- Suitable for external and internal applications.

Description

Brushbond TGP* crystalline capillary waterproofing system contains proprietary blend of portland cement, quartz aggregate and special chemicals. In the presence of moisture, the active chemicals in Brushbond TGP* crystalline waterproofing system penetrates concrete and react chemically with free lime to produce insoluble crystals. This crystalline growth reduces porosity by blocking capillaries and filling hairline non structural cracks (upto 0.25mm wide) caused by shrinkage or expansion. Unlike metallic and membrane types of waterproofing which only form a surface barrier, Brushbond TGP* crystalline waterproofing system, in the presence of water, continues producing crystals and lasting imperviousness to water.

Technical support

The company provides a technical advisory service supported by a team of specialists in the field.

Properties

Specific gravity	1.6 - 2.0 g/cc
Pot life	40 minutes
Tensile strength	>1.5 N/mm^2
Adhesive strength	>1.0 N/mm^2

Note: The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, dependent on actual site conditions.

Instructions for use

Surface preparation

Old concrete

Surfaces must be clean and sound. Remove all oil, dirt, laitance and other contaminants by water blasting.

Water blasting is preferred for surface preparation because it mechanically cleans and roughens the surface, is environmentally safer and leaves the surface saturated with water. Surface must be damp for application of Brushbond TGP* crystalline waterproofing system, concentrate.

New concrete

After forms are stripped, acid etch or sand blast / water blast to facilitate penetration of crystals formed during the chemical reaction. Surface must be left damp for application on Brushbond TGP* crystalline waterproofing system.

Construction joints, cold joints and non-leaking joints greater than 0.25mm wide must be cut in V-groove shape and filled with Brushbond TGP* crystalline waterproofing system in mortar consistency.

Mixing

For best results, clean, potable water should be added to Brushbond TGP* crystalline waterproofing system concentrate.

Application

Existing concrete

3 parts of powder shall be added to 1 part of clean and mixed thoroughly with a slow speed drill equipped with a paddle. For larger batches, mixing shall be done with a mortar mixer. Do not mix more material than can be used in 20 minutes @ 27^{0}C, 50% R.H. If mixture thickens, it shall be restirred to reduce consistency. Extra water should not be added.

Curing and Protecting

Brushbond TGP* crystalline waterproofing system application must be kept moist for a minimum of 48 hours. After initial set, moist curing, using continuous water spray is recommended. Treated surfaces shall be fog sprayed 3 to 4 times daily for the 48 hour period. For warmer climates, more frequent spraying may be required. It is important to keep the Brushbond TGP* crystalline waterproofing system moist to allow the crystal formation to occur. The surfaces shall be protected from foot traffic for 48 hours or heavy traffic for 7 days. Freshly applied Brushbond TGP* crystalline waterproofing system must be protected from extreme weather conditions such as rain, strong

winds, high temperatures and freezing for a period of not less than 48 hours after application. A minimum of 7 days of air curing shall be allowed prior to immersing the surface in water.

Clean up

Prior to curing, Brushbond TGP* crystalline waterproofing system concentrate may be cleaned from tools and other surfaces with water.

Limitations

Brushbond TGP should not be used when the temperature is 5°C and falling. Full activation and effectiveness of Brushbond TGP may require 2-3 weeks following application.

Estimating

Supply

Brushbond TGP	:	15 kg bags

Coverage

Brushbond TGP	:	1.0 to 2.0 kg/m^2 per application (brush)

The coverage of Crystalline waterproofing system is recommended depending upon the type of structure and application. Generally, it is applied in 2 coats for effective performance of the system.

Storage

Brushbond TGP* crystalline waterproofing system concentrate should be stored in protected, dry areas. When left in original unopened package, Brushbond TGP* crystalline waterproofing system will maintain its design performance characteristics for 1 year.

Precautions

Health & Safety Instructions

Brushbond TGP* crystalline waterproofing system contain chemicals that may cause irritation to the eyes and skin. Goggles, rubber gloves and long sleeves should be worn when working with these products. Read warnings noted on product package and refer to product material safety datasheet prior to use.

Fosroc Chemicals (India) Pvt. Ltd.
Head Office
Embassy Point, No. 150,
2nd Floor, Infantry Road,
Bangalore 560 001,
Karnataka

Important note :
Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

telephone	fax	e-mail
+91 80-42521900	+91 80-22281510	enquiryindia@fosroc.com

Regional Offices

Chennai
Hills Centre,Old No 5,
New No 9, 3rd Cross Street,
Jeth Nagar, Raja Annamalaipuram,
Chennai 600 028.
Ph: 9500064795

Mumbai
MBC Park, 12th floor, Office No.12B,
'D' Block, Near G Corp/Hyper City
Kasarwadawali, Ghodbunder Road,
Thane (West) 400 615
Ph: +91 22 6229 6800

Noida
Unit No. 601, Highway Tower-II
A-13/2, 6th Floor, Sector– 62
Gautam Buddha Nagar,
Noida 201 309, Uttar Pradesh
Ph: +91 120 6121900
Fax: 0120-4270622

Kolkata
304, Jodhpur Park
Kolkata 700 068
Ph:+91 33-65343188
Fax: 033-2499-0278

www.fosroc.com